

52135010/521350

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



Rec'd PCT/PTO 12 JAN 2005

(43) International Publication Date  
22 January 2004 (22.01.2004)

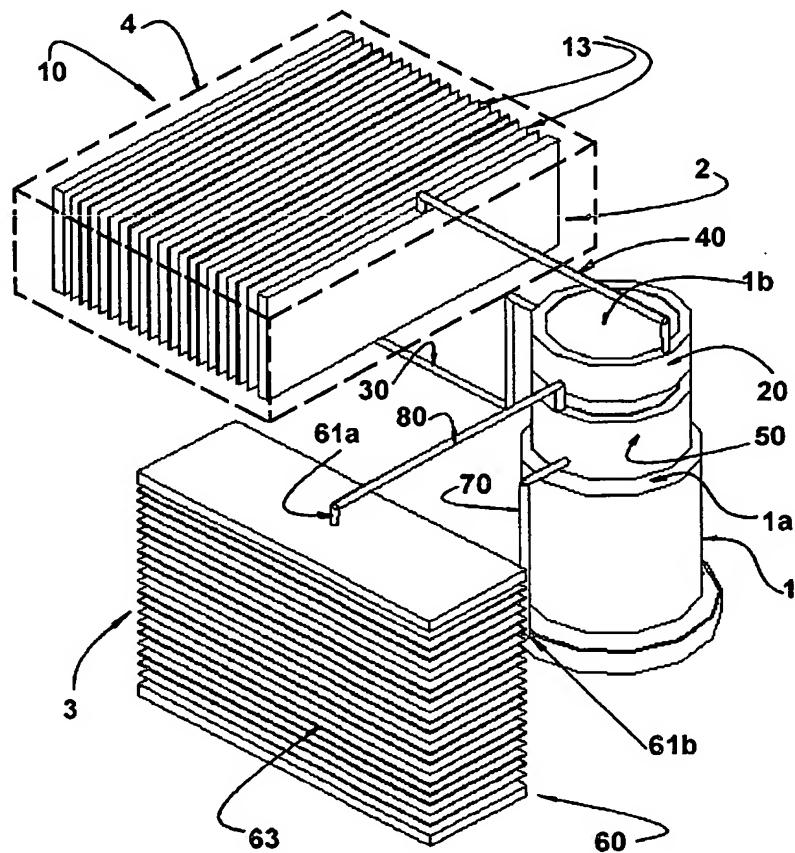
PCT

(10) International Publication Number  
WO 2004/008045 A1

- (51) International Patent Classification<sup>7</sup>: F25B 9/14,  
39/00, F28D 15/00
- (21) International Application Number:  
PCT/BR2003/000097
- (22) International Filing Date: 15 July 2003 (15.07.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
PI 0202997-9 16 July 2002 (16.07.2002) BR
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- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

[Continued on next page]

(54) Title: REFRIGERATION SYSTEM



(57) Abstract: A refrigeration system comprising: a Stirling machine (1); a refrigerating chamber (4); a first thermal energy transfer device (2) operatively associated with a refrigerating portion (1b) of the machine and with the refrigerating chamber (4); a second thermal energy transfer device (3) operatively associated with a heat receiving means, external to said machine, and with the heating portion (1a) thereof, the first thermal energy transfer device (2) comprising: at least one capillary pump (10) mounted in the refrigerating chamber (4) to evaporate, by the heat absorbed from the latter, the circulating fluid received in said capillary pump (10); a condenser (20) operatively coupled to the refrigerating portion (1b) of the Stirling machine (1) to condense the circulating fluid received, in the gaseous state, from the capillary pump (10); and pipes (30, 40) to conduct in a closed loop, the circulating fluid between the capillary pump (10) and the condenser (20).

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